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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,599	04/13/2006	Nigel Hall	05579-00354-US 1576	
23416 CONNOLLY I	7590 06/06/200 BOVE LODGE & HUT	EXAMINER		
P O BOX 2207	,	POWERS, FIONA		
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER
			1626	
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			06/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/575,599	HALL, NIGEL				
Office Action Summary	Examiner	Art Unit				
	Fiona T. Powers	1626				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
·— ·	action is non-final.					
3) Since this application is in condition for allowar	·—					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1 to 9 and 11 is/are pending in the ap	plication.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1, 4 to 6, 8, 9 and 11</u> is/are rejected.						
7)⊠ Claim(s) <u>2,3 and 7</u> is/are objected to.)⊠ Claim(s) <u>2,3 and 7</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.	\sim				
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the I	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
 Certified copies of the priority document 	s have been received.					
2. Certified copies of the priority document						
3. Copies of the certified copies of the prior	_ -	ed in this National Stage				
application from the International Bureau		. d				
* See the attached detailed Office action for a list	of the certified copies not receive	su.				
Attachment(s)	.					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
Notice of Draitsperson's Patent Brawning Review (PTO-940) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/13/06.	5) Notice of Informal F 6) Other:					

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Receipt is acknowledged of the preliminary amendment and information disclosure statement filed April 13, 2006, which have been entered in the file.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 4, 5, 8 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

When R^1 is $-NCOR^6$, the valency of the nitrogen atom is not satisfied. Appropriate correction is required.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6, 9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Fishwick et el. (DE 2130992), cited by applicant.

The reference discloses the claimed dyestuff of the formula (I) and (Ie) where D is of the formula (IIa) wherein T^1 and T^4 are

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nitro, T^2 is hydrogen, T^3 is halogen, R^1 is acetylamino, R^7 is methoxy, n is 0, s is 1, R^3 , R^4 and R^5 are hydrogen and R^2 is substituted alkyl. Note Example 3. The dye is used for the dyeing of polyester textile material.

Claims 1, 6, 9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Boyd et al. (US 4119624), cited.

The reference discloses the claimed dyestuff of the formula (I) and (Ie) where D is of the formula (IIa) wherein T^1 is nitro, T^2 is halogen, T^3 and T^4 are hydrogen, R^1 is acetylamino, R^7 is hydrogen, n is 0, s is 1, R^3 , R^4 and R^5 are hydrogen and R^2 is substituted alkyl. Note Example 5 and column 6, lines 9 to 45. The dye is used for the dyeing of polyester textile material.

Claims 1, 8 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Borovas (Chemical Abstracts, 102:26342, 1985), cited.

The reference discloses the claimed dyes of the formula (I) and (Ig) where D is of the formula (IIa) where T¹ is NO₂ or halogen, T² is hydrogen or halogen, T³ is halogen or hydrogen and T⁴ is hydrogen or halogen, R¹ is hydrogen, R² is alkyl or substituted alkyl, R³ is hydrogen, n and s are 0 and R⁵ is hydrogen. Note the abstract and Registry Numbers 941-65-7, 94194-66-8 and 941194-67-9. The dyes are used to dye acrylic and polyester substrates.

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Claims 1, 9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Fishwick et al. (US 3097198), cited.

The reference discloses the claimed dyes of the formula (I) where D is of the formula (IIa) wherein T^1 is NO_2 , T^2 and T^3 are hydrogen and T^4 is cyano, R^1 , R^3 , R^4 and R^5 are hydrogen, R^2 is alkyl or substituted alkyl. Note Examples 41 and 44. The dyes are used for the dyeing of polyester fibers.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson et al. (GB 2104088), cited by applicant.

Determination of the scope and content of the prior art (MPEP §2141.01)

The reference discloses structurally similar monoazo dyes which are used for the dyeing of hydrophobic fiber materials such as polyester. The dye of the reference is structurally similar to the claimed dye of the formula (I) and (Ic) where D is of the formula (IIa) wherein T^1 and T^3 are nitro, T^2 is hydrogen and T^4 is cyano, R^1 is acetylamino, R^7 is hydrogen, R^2 is

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alkyl, R^3 is methyl, n is 0 and s is 1, R^4 and R^5 are hydrogen. Note Example 20.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The dye of the reference differs from that claimed in that it is a homolog. The alkylene group between the oxygen and the cyano group is ethylene instead of methylene. However, it has been held that homologs are obvious over one another.

Finding of prima facie obviousness---rational and motivation (MPEP §2142-2413)

One of ordinary skill in the art would have been motivated to make the claimed dyestuffs with the expectation that dyes with similar properties (e.g. food fastness to light, washing, sublimination, rubbing and dry cleaning) would be obtained. The claimed dyes would have been rendered obvious by the homolog of the reference in the absence of any unobvious property.

Claims 1, 4, 5, 9 and 11 are rejected under 35 U.S.C.

103(a) as being unpatentable over Fishwick et al. (US 3097198)

or Boyd et al. (US 4119624).

Determination of the scope and content of the prior art (MPEP §2141.01)

The reference discloses structurally similar monoazo dyes which are used for the dyeing of polyester fibers. The dyes of the references are structurally similar to the claimed dyes of the formula (I), (Ic) and (Id) where D is of the formula (IIa), R^1 is hydrogen or acetylamino, R^2 is alkyl or substituted alkyl, and one of R^3 , R^4 and R^5 is methyl and the others are hydrogen.

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Note Examples 41 and 44 of Fishwick et al. and Example 5 of Boyd et al.

Ascertainment of the difference between the prior art and the claims (MPEP §2141.02)

The dyes of the references differ from that claimed in that they are homologs. One of the groups which correspond to R^3 , R^4 and R^5 is hydrogen instead of methyl.

Finding of prima facie obviousness---rational and motivation (MPEP §2142-2413)

One of ordinary skill in the art would have been motivated to make the claimed dyes with the expectation that dyes with similar properties would be obtained. The claimed dyes would have been rendered obvious by the homologs of the reference in the absence of any unobvious property.

Claims 2, 3 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The references made of record and not relied upon show the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fiona T. Powers whose telephone number is 571-272-0702. The examiner can normally be reached on Monday - Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane can be

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reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Fiona T. Powers
Primary Examiner
Art Unit 1626

ftp June 4, 2007